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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"7069454".uref.	USPAT	OR	ON	2007/01/25 06:54
L2	0	"7069454".uref.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB.	OR	ON	2007/01/25 06:54
L3	0	"6985755".uref.	USPAT	OR	ON	2007/01/25 07:12
L4	256	((lock$4 protect$4)near3 (computer$1 or pc or server$1))with ((dock$4 or plac$4 or attach$4)near3 mouse or mice or (input adj (device or apparatus)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 07:33
L5	36	l4 same wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 07:35
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L7	1	l6 same wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 07:35
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L10	0	"713"/$ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 08:05
L11	29503	"713"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 09:36
L12	0	l11 and ((lock$4 protect$4 or secur$4 or disabl$4 or deactivat$4)near3 (computer$1 or pc or server$1))same((wireless near3 (input or mouse or keyboard or device or apparatus))same ((dock$4 or charg$4 or recharg$4) adj3 (receiver or bay or hous$4 or module or cradle or tray or station or holder or adapter)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 08:10
L13	0	l11 and ((lock$4 protect$4 or secur$4 or disabl$4 or deactivat$4 inactivat$4)near3 (computer$1 or pc or server$1))same((wireless near3 (input or mouse or keyboard or device or apparatus))same ((dock$4 or charg$4 or recharg$4) adj3 (receiver or bay or hous$4 or module or cradle or tray or station or holder or adapter)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 08:06

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L14	213508	"361"/("679" "683" "686").ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 08:09
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L17	3383	l14 and ((lock$4 protect$4 or secur$4 or disabl$4 or deactivat$4)near3 (computer$1 or pc or server$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 08:16
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L21	28356	"710"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/25 09:36

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L22	1	l21 and (((lock$4 protect$4 or secur$4 or disabl$4 or deactivat$4 or inactivat$4)near3 (computer$1 or pc or server$1 or notebook or laptop))with ((detect$4 or sens$4 or recogniz$5)adj3 ((mouse or input)adj2 (dock$3 or put$4 or insert$4))))	US-PGPUB;
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1 The Aurora RAM compiler

Ajay Chandna, C. David Kibler, Richard B. Brown, Mark Roberts, Karem A. Sakallah

January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation DAC '95**

Publisher: ACM Press

Full text available: pdf(445.74 KB) Additional Information: full citation, references, index terms

2 Estimators for stochastic "Unification-Based" grammars

Mark Johnson, Stuart Geman, Stephen Canon, Zhiyi Chi, Stefan Riezler

June 1999 **Proceedings of the 37th annual meeting of the Association for Computational Linguistics on Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(655.35 KB) Additional Information: full citation, abstract, references, citings

Log-linear models provide a statistically sound framework for Stochastic "Unification-Based" Grammars (SUBGs) and stochastic versions of other kinds of grammars. We describe two computationally-tractable ways of estimating the parameters of such grammars from a training corpus of syntactic analyses, and apply these to estimate a stochastic version of Lexical-Functional Grammar.

3 Compact non-left-recursive grammars using the selective left-corner transform and factoring

Mark Johnson, Brian Roark

July 2000 **Proceedings of the 18th conference on Computational linguistics - Volume 1**

Publisher: Association for Computational Linguistics

Full text available: pdf(697.17 KB) Additional Information: full citation, abstract, references, citings

The left-corner transform removes left-recursion from (probabilistic) context-free grammars and unification grammars, permitting simple top-down parsing techniques to be used. Unfortunately the grammars produced by the standard left-corner transform are usually much larger than the original. The selective left-corner transform described in this paper produces a transformed grammar which simulates left-corner recognition of a user-specified set of the original productions, and top-down recognitio ...

4 Explaining away ambiguity: learning verb selectional preference with Bayesian networks

Massimiliano Ciaramita, Mark Johnson

July 2000 **Proceedings of the 18th conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(608.54 KB) Additional Information: full citation, abstract, references, citings

This paper presents a Bayesian model for unsupervised learning of verb selectional preferences. For each verb the model creates a Bayesian network whose architecture is determined by the lexical hicrarchy of Wordnet and whose parameters are estimated from a list of verb-object pairs found from a corpus. "Explaining away", a well-known property of Bayesian networks, helps the model deal in a natural fashion with word sense ambiguity in the training data. On a word sense disambiguation test our mo ...

5 Features and agreement
Sam Bayer, Mark Johnson
June 1995 **Proceedings of the 33rd annual meeting on Association for Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(555.34 KB) Publisher Site
Additional Information: full citation, abstract, references, citings

This paper compares the *consistency-based* account of agreement phenomena in 'unification-based' grammars with an *implication-based* account based on a simple feature extension to Lambek Categorial Grammar (LCG). We show that the LCG treatment accounts for constructions that have been recognized as problematic for 'unification-based' treatments.

6 Workshop reports: ACM SIGIR 2001 workshop "Information Retrieval Techniques for Speech Applications"
Anni R. Coden, Eric Brown, Savitha Srinivasan
April 2002 **ACM SIGIR Forum,** Volume 36 Issue 1
Publisher: ACM Press
Full text available: pdf(61.90 KB) Additional Information: full citation, abstract, references

We organized a workshop at SIGIR'01 to explore the area of information retrieval techniques for speech applications. Here we summarize the results of that workshop

7 Efficient probabilistic top-down and left-corner parsing
Brian Roark, Mark Johnson
June 1999 **Proceedings of the 37th annual meeting of the Association for Computational Linguistics on Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(665.64 KB) Additional Information: full citation, abstract, references, citings

This paper examines efficient predictive broad, coverage parsing without dynamic programming. In contrast to bottom-up methods, depth-first top-down parsing produces partial parses that are fully connected trees spanning the entire left context, from which any kind of non-local dependency or partial semantic interpretation can in principle be read. We contrast two predictive parsing approaches, top-down and left-corner parsing, and find both to be viable. In addition, we find that enhancement ...

8 Hybrid transactional memory
Peter Damron, Alexandra Fedorova, Yossi Lev
October 2006 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer Architecture News , Proceedings of the 12th international conference on Architectural support for programming languages and operating systems ASPLOS-XII,** Volume 41 , 40 , 34 Issue 11 , 5 , 5
Publisher: ACM Press
Full text available: pdf(195.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Transactional memory (TM) promises to substantially reduce the difficulty of writing correct, efficient, and scalable concurrent programs. But "bounded" and "best-effort" hardware TM proposals impose unreasonable constraints on programmers, while more flexible software TM implementations are considered too slow. Proposals for supporting "unbounded" transactions in hardware entail significantly higher complexity and risk than best-effort designs.We introduce *Hybrid Transactional Memory* (Hy ...

Keywords: transactional memory

9 Semantic abstraction and anaphora
Mark Johnson, Martin Kay
August 1990 **Proceedings of the 13th conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(788.70 KB) Additional Information: full citation, abstract, references, citings

This paper describes a way of expressing syntactic rules that associate semantic formulae with strings, but in a manner that is independent of the syntactic details of these formulae. In particular we show how the same rules construct predicate argument formulae in the style of Montague grammar[13], representations reminiscent of situation semantics(Barwise and Perry [2]) and of the event logic of Davidson [5], or representations inspired by the discourse representations proposed by Kamp [9]. Th ...

10 Expressing disjunctive and negative feature constraints with classical first-order logic
Mark Johnson
June 1990 **Proceedings of the 28th annual meeting on Association for Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(331.71 KB) Publisher Site Additional Information: full citation, abstract, references, citings

In contrast to the "designer logic" approach, this paper shows how the attribute-value feature structures of unification grammar and constraints on them can be axiomatized in classical first-order logic, which can express disjunctive and negative constraints. Because only quantifier-free formulae are used in the axiomatization, the satisfiability problem is *NP*-complete.

11 Memoization of coroutined constraints
Mark Johnson, Jochen Dörre
June 1995 **Proceedings of the 33rd annual meeting on Association for Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(697.50 KB) Publisher Site Additional Information: full citation, abstract, references, citings

Some linguistic constraints cannot be effectively resolved during parsing at the location in which they are most naturally introduced. This paper shows how constraints can be propagated in a memoizing parser (such as a chart parser) in much the same way that variable bindings are, providing a general treatment of constraint coroutining in memoization. Prolog code for a simple application of our technique to Bouma and van Noord's (1994) categorial grammar analysis of Dutch is provided.

12 Finite-state approximation of constraint-based grammars using left-corner grammar transforms
Mark Johnson
August 1998 **Proceedings of the 17th international conference on Computational linguistics - Volume 1 , Proceedings of the 36th annual meeting on Association for Computational Linguistics - Volume 1**
Publisher: Association for Computational Linguistics

Full text available: pdf(517.94 KB) Publisher Site Additional Information: full citation, abstract, references, citings

This paper describes how to construct a finite-state machine (FSM) approximating a 'unification-based' grammar using a left-corner grammar transform. The approximation is presented as a series of grammar transforms, and is exact for left-linear and right-linear CFGs, and for trees up to a user-specified depth of center-embedding.

13 Exploiting auxiliary distributions in stochastic unification-based grammars
Mark Johnson, Stefan Riezler
April 2000 **Proceedings of the first conference on North American chapter of the Association for Computational Linguistics**
Publisher: Morgan Kaufmann Publishers Inc.
Full text available: pdf(687.94 KB) Additional Information: full citation, abstract, references, citings

This paper describes a method for estimating conditional probability distributions over the parses of "unification-based" grammars which can utilize auxiliary distributions that are estimated by other means. We show how this can be used to incorporate information about lexical selectional preferences gathered from other sources into Stochastic "Unification-based" Grammars (SUBGs). While we apply this estimator to a Stochastic Lexical-Functional Grammar, the method is general, and should be appli ...

14 PCFG models of linguistic tree representations
Mark Johnson
December 1998 **Computational Linguistics**, Volume 24 Issue 4
Publisher: MIT Press
Full text available: pdf(1.28 MB) Publisher Site Additional Information: full citation, abstract, references, citings

The kinds of tree representations used in a treebank corpus can have a dramatic effect on performance of a parser based on the PCFG estimated from that corpus, causing the estimated likelihood of a tree to differ substantially from its frequency in the training corpus. This paper points out that the Penn II treebank representations are of the kind predicted to have such an effect, and describes a simple node relabeling transformation that improves a treebank PCFG-based parser's average precision ...

15 Squibs and discussions: Parsing and empty nodes
Mark Johnson, Martin Kay
June 1994 **Computational Linguistics**, Volume 20 Issue 2
Publisher: MIT Press
Full text available: pdf(577.13 KB) Publisher Site Additional Information: full citation, abstract, references, citings

This paper describes a method for ensuring the termination of parsers using grammars that freely posit empty nodes. The basic idea is that each empty node must be associated with a lexical item appearing in the input string, called its sponsor. A lexical item, as well as labeling the node for the corresponding word, provides labels for a fixed number, possibly zero, of empty nodes. The number of nodes appearing in the parse tree is thus bounded before parsing begins. Termination follows triviall ...

16 Computing with features as formulae
Mark Johnson
March 1994 **Computational Linguistics**, Volume 20 Issue 1
Publisher: MIT Press
Full text available: pdf(1.48 MB) Publisher Site Additional Information: full citation, abstract, references, citings

This paper extends the approach to feature structures developed in Johnson (1991a), which uses Schönfinkel-Bernays' formulae to express feature structure constraints. These are shown to be a disjunctive generalization of Datalog clauses, as used in database theory. This paper provides a fixed-point characterization of the minimal models of these formulae that serves as the theoretical foundation of a forward-chaining algorithm for determining their satisfiability. This algorithm, which gene ...

17 Features and formulae
Mark Johnson
June 1991 **Computational Linguistics**, Volume 17 Issue 2
Publisher: MIT Press
Full text available: pdf(1.33 MB) Publisher Site
Additional Information: full citation, abstract, references, citings

Feature structures are a representational device used in several current linguistic theories. This paper shows how these structures can be axiomatized in a decidable class of first-order logic, which can also be used to express constraints on these structures. Desirable properties, such as compactness and decidability, follow directly. Moreover, additional types of feature values, such as "set-valued" features, can be incorporated into the system simply by axiomatizing their properties.

18 Squibs and discussions: Memoization in top-down parsing
Mark Johnson
September 1995 **Computational Linguistics**, Volume 21 Issue 3
Publisher: MIT Press
Full text available: pdf(777.75 KB) Publisher Site
Additional Information: full citation, references, citings

19 Demonstrations: Group 1: Distributed operation in the Borealis stream processing engine
Yanif Ahmad, Bradley Berg, U□ur Cetintemel, Mark Humphrey, Jeong-Hyon Hwang, Anjali Jhingran, Anurag Maskey, Olga Papaemmanouil, Alexander Rasin, Nesime Tatbul, Wenjuan Xing, Ying Xing, Stan Zdonik
June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**
Publisher: ACM Press
Full text available: pdf(328.11 KB)
Additional Information: full citation, abstract, references, citings

Borealis is a distributed stream processing engine that is being developed at Brandeis University, Brown University, and MIT. Borealis inherits core stream processing functionality from Aurora and inter-node communication functionality from Medusa.We propose to demonstrate some of the key aspects of distributed operation in Borealis, using a multi-player network game as the underlying application. The demonstration will illustrate the dynamic resource management, query optimization and high avai ...

20 Hypertext and pluralism: from lineal to non-lineal thinking
Wiliam O. Beeman, Kenneth T. Anderson, Gail Bader, James Larkin, Anne P. McClard, Patrick McQuillan, Mark Shields
November 1987 **Proceeding of the ACM conference on Hypertext HYPERTEXT '87**
Publisher: ACM Press
Full text available: pdf(1.91 MB)
Additional Information: full citation, abstract, references, citings, index terms

One goal of American and Northern European higher education is to promote acquisition of a pluralistic cognitive style, which has as an important property— non-lineality. This paper investigates the effects of using of an advanced hypertext/hypermedia system, Intermedia, to develop instructional materials for two university courses in English and Biology intended to promote acquisition of non-lineal thinking. Use of Intermedia is shown to produce significant learning effects, ...

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Relevance scale

21 Structure, navigation, and hypertext: the status of the navigation problem

Mark Bernstein, Peter J. Brown, Mark Frisse, Robert Glushko, Polle Zellweger, George Landow

September 1991 **Proceedings of the third annual ACM conference on Hypertext HYPERTEXT '91**

Publisher: ACM Press

Full text available: pdf(259.13 KB) Additional Information: full citation, references, citings, index terms

22 The versatility of color mapping

Samuel P. Uselton, Mark E. Lee, Randy A. Brown

October 1986 **Proceedings of the 1986 workshop on Applied computing SAC '86**

Publisher: ACM Press

Full text available: pdf(412.49 KB) Additional Information: full citation, abstract, references, index terms

Extracting information from large amounts of data by using tables of numbers is difficult. Often, such data can be presented more effectively with graphics. The reduction in the cost of memory has allowed more powerful display systems to provide for the simultaneous display of hundreds, thousands, and even millions of colors. Effective and efficient manipulation of the colors in the display system is necessary to manage the use of such a large number of colors. These extended color capabili ...

23 A representation for linear lists with movable fingers

Mark R. Brown, Robert E. Tarjan

May 1978 **Proceedings of the tenth annual ACM symposium on Theory of computing STOC '78**

Publisher: ACM Press

Full text available: pdf(706.38 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a data structure which is useful for representing linear lists when the pattern of accesses to a list exhibits a (perhaps time-varying) locality of reference. The structure has many of the properties of the representation proposed by Guibas, McCreight, Plass, and Roberts [4], but is substantially simpler and may be practical for lists of moderate size. The analysis of our structure includes a general treatment of the worst-case node splitting caused by consecutive inser ...

24 The complexity of priority queue maintenance

Mark R. Brown

May 1977 **Proceedings of the ninth annual ACM symposium on Theory of computing STOC '77**

Publisher: ACM Press
Full text available: pdf(582.97 KB) Additional Information: full citation, abstract, references, index terms

A notion of priority queue efficiency is defined, based on comparison counting. A good lower bound on the average and worst case number of comparisons is derived; several priority queue algorithms are exhibited which nearly attain the bound. It is shown that one of these algorithms, using binomial queues, can be characterized in a simple way based on the number and type of comparisons that it requires. The proof of this result involves an interesting problem on trees for which Huffman's con ...

25 Session 5: Non-reversible privacy transformations
Steven P. Reiss, Mark J. Post, Tore Dalenius
March 1982 **Proceedings of the 1st ACM SIGACT-SIGMOD symposium on Principles of database systems PODS '82**
Publisher: ACM Press
Full text available: pdf(742.43 KB) Additional Information: full citation, references, citings

26 Database systems and user interfaces: The cedar DBMS: a preliminary report
Mark R. Brown, Roderic G. G. Cattell, Norihisa Suzuki
April 1981 **Proceedings of the 1981 ACM SIGMOD international conference on Management of data SIGMOD '81**
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings

The Cedar DBMS is a database management system developed as part of the Cedar programming environment. The system has several unusual aspects, including its interface for applications programming in a strongly-typed procedural language and its distribution of computation and data over a network. This paper describes the design goals, architecture, and implementation of the Cedar DBMS.

27 Computer science undergraduate capstone course
Clinton P. Fuelling, Anne-Marie Lancaster, Mark C. Kertstetter, R. Waldo Roth, William A. Brown, Richard K. Reidenbach, Ekawan Wongsawatgul
February 1988 **ACM SIGCSE Bulletin , Proceedings of the nineteenth SIGCSE technical symposium on Computer science education SIGCSE '88**, Volume 20 Issue 1
Publisher: ACM Press
Full text available: pdf(114.68 KB) Additional Information: full citation, abstract, index terms

Curriculum concerns of the computer science discipline continue to require refinements in this rapidly changing field. We have established curriculum guidelines and we have two years experience in the accrediting process of the CSAB. Remarks such as "I do not consider the topic of ... to be in the computer science discipline" and "At least the topic of ... is not a capstone course" are being made. The goal of this panel is to provide an open, probing platfo ...

28 ACM 1975 George E. Forsythe student paper competition awards—committee report
Mark Laventhal, Bill Mark, Gretchen Brown, Dave Ellis, Andy Huber
September 1975 **Communications of the ACM**, Volume 18 Issue 9
Publisher: ACM Press
Full text available: pdf(164.35 KB) Additional Information: full citation, index terms

29 A Fast Merging Algorithm
Mark R. Brown, Robert E. Tarjan
April 1979 **Journal of the ACM (JACM)**, Volume 26 Issue 2
Publisher: ACM Press
Full text available: pdf(874.52 KB) Additional Information: full citation, references, citings, index terms

30 Using explicit requirements and metrics for interface agent user model correction
Scott M. Brown, Eugene Santos, Sheila B. Banks, Mark E. Oxley
May 1998 **Proceedings of the second international conference on Autonomous agents AGENTS '98**
Publisher: ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, references, index terms

31 Image plane interaction techniques in 3D immersive environments
Jeffrey S. Pierce, Andrew S. Forsberg, Matthew J. Conway, Seung Hong, Robert C. Zeleznik, Mark R. Mine
April 1997 **Proceedings of the 1997 symposium on Interactive 3D graphics SI3D '97**
Publisher: ACM Press
Full text available: pdf(588.86 KB) Additional Information: full citation, references, citings, index terms

32 Panel discussion: Intelligent instructional systems
J. D. Fletcher, Avron Bar, John Seely Brown, Donald Gentner, Ira Goldstein, Mark Miller
February 1976 **ACM SIGCUE Outlook , ACM SIGCSE Bulletin , Proceedings of the ACM SIGCSE-SIGCUE technical symposium on Computer science and education**, Volume 10 , 8 Issue SI , 1
Publisher: ACM Press
Full text available: pdf(37.01 KB) Additional Information: full citation, abstract, index terms

An important area of computer-assisted instruction is the development of intelligent instructional systems. These systems can be distinguished from more conventional approaches by the automation of instructional interaction and choice of strategy. They promise both to reduce the costs of instructional materials preparation and to increase the adaptability and individualization of the instruction delivered. An appropriately intelligent instructional system should create a reactive environmen ...

33 Visualization of the Interaction of Multiple Sclerosis Lesions with Adjacent White Matter Fibers Using Streamtubes and Streamsurfaces
Song Zhang, David Laidlaw, Jack Simon, Mark Brown, David Miller
October 2004 **Proceedings of the conference on Visualization '04 VIS '04**
Publisher: IEEE Computer Society
Full text available: pdf(136.78 KB) Additional Information: full citation

34 A shared, segmented memory system for an object-oriented database
Mark F. Hornick, Stanley B. Zdonik
January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1
Publisher: ACM Press
Full text available: pdf(2.05 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes the basic data model of an object-oriented database and the basic architecture of the system implementing it. In particular, a secondary storage segmentation scheme and a transaction-processing scheme are discussed. The segmentation scheme allows for arbitrary clustering of objects, including duplicates. The transaction scheme allows for many different sharing protocols ranging from those that enforce serializability to those that are nonserializable and require communi ...

35 Optimal tracing and incremental reexecution for debugging long-running programs
Robert H. B. Netzer, Mark H. Weaver

June 1994 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1994 conference on Programming language design and implementation PLDI '94**, Volume 29 Issue 6
Publisher: ACM Press
Full text available: pdf(1.34 MB) Additional Information: full citation, references, citings, index terms

36 Large-scale sorting in parallel memories (extended abstract)
Mark H. Nodine, Jeffrey Scott Vitter
June 1991 **Proceedings of the third annual ACM symposium on Parallel algorithms and architectures SPAA '91**
Publisher: ACM Press
Full text available: pdf(899.04 KB) Additional Information: full citation, references, citings, index terms

37 Signals in mRNAs that influence the initiation of translation
Chris M. Brown, Grant Jacobs, Mark Schreiber
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 APBC '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(584.43 KB) Additional Information: full citation, abstract, references, index terms

Signals in the mRNA influence how efficiently it is translated into protein. Previous studies have indicated that important signals are located around the initiation codon. In this study we describe a new approach to discovering these signals. This approach has been applied to 53 complete genomes or chromosomes. For the region flanking initiation codons most of the organisms fall into two groups containing previously known efficiency signals. However, we have identified several organisms with un ...

Keywords: information theory, nucleotide bias, translation

38 Varieties of computer graphics courses in computer science
Steve Cunningham, Judith R. Brown, Robert P. Burton, Mark Ohlson
February 1988 **ACM SIGCSE Bulletin , Proceedings of the nineteenth SIGCSE technical symposium on Computer science education SIGCSE '88**, Volume 20 Issue 1
Publisher: ACM Press
Full text available: pdf(113.81 KB) Additional Information: full citation, abstract, citings, index terms

The increased importance of graphics in computer systems has made computer graphics a more visible and important part of computer science education. This graphics education can take any of several forms. This panel describes four of these: the graphics service course for non-majors, the graphics systems course, the graphics concepts and algorithms course, and advanced or graduate courses in graphics. This panel is based on part of a workshop presented at SIGGRAPH '87.

39 The music notepad
Andrew Forsberg, Mark Dieterich, Robert Zeleznik
November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology UIST '98**
Publisher: ACM Press
Full text available: pdf(277.94 KB) Additional Information: full citation, references, citings, index terms

Keywords: direct displays, gestural input, gesture recognition, handwriting reconition, interaction, music notation, user interface

40 Navigational assistance: Indoor wayfinding:: developing a functional interface for individuals with cognitive impairments

Alan L. Liu, Harlan Hile, Henry Kautz, Gaetano Borriello, Pat A. Brown, Mark Harniss, Kurt Johnson

October 2006 **Proceedings of the 8th international ACM SIGACCESS conference on Computers and accessibility Assets '06**

Publisher: ACM Press

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, index terms

Assistive technology for wayfinding will significantly improve the quality of life for many individuals with cognitive impairments. The user interface of such a system is as crucial as the underlying implementation and localization technology. We built a system using the Wizard-of-Oz technique that let us experiment with many guidance strategies and interface modalities. Through user studies, we evaluated various configurations of the user interface for accuracy of route completion, time to comp ...

Keywords: cognitive disability, ubiquitous computing, user interface, wizard-of-oz

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Relevance scale

41 Investigating loss functions and optimization methods for discriminative learning of label sequences

Yasemin Altun, Mark Johnson, Thomas Hofmann

July 2003 **Proceedings of the 2003 conference on Empirical methods in natural language processing - Volume 10**

Publisher: Association for Computational Linguistics

Full text available: pdf(157.10 KB) Additional Information: full citation, abstract, references, citings

Discriminative models have been of interest in the NLP community in recent years. Previous research has shown that they are advantageous over generative models. In this paper, we investigate how different objective functions and optimization methods affect the performance of the classifiers in the discriminative learning framework. We focus on the sequence labelling problem, particularly POS tagging and NER tasks. Our experiments show that changing the objective function is not as effective as c ...

42 Virtual and augmented reality: Augmenting the science centre and museum experience

Eric Woods, Mark Billinghurst, Julian Looser, Graham Aldridge, Deidre Brown, Barbara Garrie, Claudia Nelles

June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04**

Publisher: ACM Press

Full text available: pdf(510.92 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent advances in computer graphics and interactive techniques have increased the visual quality and flexibility of Augmented Reality (AR) applications. This, in turn has increased the viability of applying AR to educational exhibits for use in Science Centres, Museums, Libraries and other education centres. This article outlines a selection of five projects developed at the Human Interface Technology Laboratory in New Zealand (HIT Lab NZ) that have explored different techniques for applying AR ...

Keywords: augmented reality, digital archiving, educational exhibits, museums, real-time 3D graphics, science centres, software, storytelling

43 Section 05: home and neighbourhood: Of maps and guidebooks: designing geographical technologies

Barry Brown, Mark Perry

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques DIS '02**

Publisher: ACM Press

Full text available: pdf(56.83 KB) Additional Information: full citation, abstract, references, citings, index terms

Researchers and designers are increasingly making use of geographic location in designing context-aware computer systems. However, there has been little conceptual work on how geography interacts with technology. In this paper, we use the concepts of "place and space" to explore how technologies are used geographically and how they impact on, and are used in, the physical environment. Fieldwork with tourists using maps and guidebooks shows how technology brings space and place together in activi ...

Keywords: context-aware computing, ethnography, geography, place and space, user studies

44 Shared visiting in EQUATOR city

Ian MacColl, Dave Millard, Cliff Randell, Anthony Steed, Barry Brown, Steve Benford, Matthew Chalmers, Ruth Conroy, Nick Dalton, Areti Galani, Chris Greenhalgh, Danius Michaelides, Tom Rodden, Ian Taylor, Mark Weal

September 2002 **Proceedings of the 4th international conference on Collaborative virtual environments CVE '02**

Publisher: ACM Press

Full text available: pdf(224.19 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe an infrastructure and prototype system for sharing of visiting experiences across multiple media. The prototype supports synchronous co-visiting by physical and digital visitors, with digital access via either the World Wide Web or 3-dimensional graphics.

Keywords: co-visiting, digital, physical

45 Of maps and guidebooks: designing geographical technologies

Barry Brown, Mark Perry

December 2001 **ACM SIGGROUP Bulletin**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(676.09 KB) Additional Information: full citation, abstract, references

The physical environment plays a large role in the design and use of technology. So called "context-aware" systems use ultrasound, GPS or cell-tracking, to work out their position and infer something of their context [9]. These systems offer the possibility of technology which responds better to the environments it is in [4], and also technologies which interact with the physical world in new ways [5]. Through these developments technology is increasingly taking on a geographical aspect, as it b ...

46 Dealing with mobility: understanding access anytime, anywhere

Mark Perry, Kenton O'hara, Abigail Sellen, Barry Brown, Richard Harper

December 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: pdf(217.74 KB) Additional Information: full citation, abstract, references, citings, index terms

The rapid and accelerating move towards use of mobile technologies has increasingly provided people and organizations with the ability to work away from the office and on the move. The new ways of working afforded by these technologies are often characterized in terms of access to information and people anytime, anywhere. This article presents a study of mobile workers that highlights different facets of *access* to remote people and information, and different facets of *anytime, anywhere* ...

Keywords: *Awareness, context, dead time, diary study, distributed collaboration,* *interviews, mobile communication, mobile technology, mobile workers, personal computing*

47 Implicit interest indicators
Mark Claypool, Phong Le, Makoto Wased, David Brown
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces IUI '01**
Publisher: ACM Press
Full text available: pdf(618.26 KB) Additional Information: full citation, abstract, references, citings, index terms

Recommender systems provide personalized suggestions about items that users will find interesting. Typically, recommender systems require a user interface that can ``intelligently'' determine the interest of a user and use this information to make suggestions. The common solution, ``explicit ratings'', where users tell the system what they think about a piece of information, is well-understood and fairly precise. However, having to stop to enter explicit ratings can alter normal patterns ...

48 Tight bounds for k-set agreement
Soma Chaudhuri, Maurice Erlihy, Nancy A. Lynch, Mark R. Tuttle
September 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 5
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, citings, index terms

We prove tight bounds on the time needed to solve k-set agreement. In this problem, each processor starts with an arbitrary input value taken from a fixed set, and halts after choosing an output value. In every execution, at most k distinct output values may be chosen, and every processor's output value must be some processor's input value. We analyze this problem in a synchronous, message-passing model where processors f ...

Keywords: k-set agreement, Spwener's Lemma, crash failure model, message-passing systems, synchronous systems, topology

49 Towards a universal test suite for combinatorial auction algorithms
Kevin Leyton-Brown, Mark Pearson, Yoav Shoham
October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce EC '00**
Publisher: ACM Press
Full text available: pdf(494.90 KB) Additional Information: full citation, references, citings, index terms

50 Using the lessons of Y2K to improve information systems architecture
Garland Brown, Marshall Fisher, Ned Stoll, Dave Beeksma, Mark Black, Ron Taylor, Choe Seok Yon, Aaron J. Williams, William Bryant, Bernard J. Jansen
October 2000 **Communications of the ACM**, Volume 43 Issue 10
Publisher: ACM Press
Full text available: pdf(122.11 KB) html(34.53 KB) Additional Information: full citation, references, index terms, review

51 Roundtable on structure editing (panel session): teachers' experiences using Carnegie Mellon's GENIE programming environments
Dennis R. Goldenson, Michael Brown, Jane Bruemmer, Nathan Hull, Roy Jones, Bruce McClellan, Joseph Kmoch, Phillip Miller, Mark Stehlik, Laurie Werth
February 1990 **ACM SIGCSE Bulletin , Proceedings of the twenty-first SIGCSE technical symposium on Computer science education SIGCSE '90,**

Volume 22 Issue 1
Publisher: ACM Press
Full text available: pdf(107.14 KB) Additional Information: full citation, index terms

52 NSF workshop on a software research program for the 21st century
Victor R. Basili, Laszlo Belady, Barry Boehm, Frederick Brooks, James Browne, Richard DeMillo, Stuart I. Feldman, Cordell Green, Butler Lampson, Duncan Lawrie, Nancy Leveson, Nancy Lynch, Mark Weiser, Jeannette Wing
May 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 3
Publisher: ACM Press
Full text available: pdf(1.29 MB) Additional Information: full citation, citings, index terms

53 Unifying synchronous and asynchronous message-passing models
Maurice Herlihy, Sergio Rajsbaum, Mark R. Tuttle
June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing PODC '98**
Publisher: ACM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

54 The process of discovery: hypertext and scholarship
Mark Bernstein, George P. Landow, Elli Mylonas, John B. Smith
March 1996 **Proceedings of the the seventh ACM conference on Hypertext HYPERTEXT '96**
Publisher: ACM Press
Full text available: pdf(33.81 KB) Additional Information: full citation, index terms

55 VHDL intermediate form standardization: process, issues and status
Mark Brown
November 1992 **Proceedings of the conference on European design automation EURO-DAC '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(390.99 KB) Additional Information: full citation, references, index terms

56 VHDL analog extensions: process, issues and status
Robert Cottrell, Kevin Nolan, Mark Brown
November 1992 **Proceedings of the conference on European design automation EURO-DAC '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(582.83 KB) Additional Information: full citation, references, index terms

57 Efficiently computing static single assignment form and the control dependence graph
Ron Cytron, Jeanne Ferrante, Barry K. Rosen, Mark N. Wegman, F. Kenneth Zadeck
October 1991 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 13 Issue 4
Publisher: ACM Press
Full text available: pdf(2.49 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: control dependence, control flow graph, def-use chain, dominator, optimizing compilers

58 Supersense tagging of unknown nouns in WordNet
Massimiliano Ciaramita, Mark Johnson
July 2003 **Proceedings of the 2003 conference on Empirical methods in natural language processing - Volume 10**
Publisher: Association for Computational Linguistics
Full text available: pdf(154.26 KB) Additional Information: full citation, abstract, references

We present a new framework for classifying common nouns that extends named-entity classification. We used a fixed set of 26 semantic labels, which we called *supersenses*. These are the labels used by lexicographers developing WordNet. This framework has a number of practical advantages. We show how information contained in the dictionary can be used as additional training data that improves accuracy in learning new nouns. We also define a more realistic evaluation procedure than cross-vali ...

59 Parsing and disfluency placement
Donald Engel, Eugene Charniak, Mark Johnson
July 2002 **Proceedings of the ACL-02 conference on Empirical methods in natural language processing - Volume 10 EMNLP '02**
Publisher: Association for Computational Linguistics
Full text available: pdf(144.20 KB) Additional Information: full citation, abstract, references

It has been suggested that some forms of speech disfluencies, most notable interjections and parentheticals, tend to occur disproportionally at major clause boundaries [6] and thus might serve to aid parsers in establishing these boundaries. We have tested a current statistical parser [1] on Switchboard text with and without interjections and parentheticals and found that the parser performed better when not faced with these extra phenomena. This suggest that for current parsers, at least, inter ...

60 Divide-and-query and subterm dependency tracking in the mercury declarative debugger
Ian MacLarty, Zoltan Somogyi, Mark Brown
September 2005 **Proceedings of the sixth international symposium on Automated analysis-driven debugging AADEBUG'05**
Publisher: ACM Press
Full text available: pdf(232.01 KB) Additional Information: full citation, abstract, references, index terms

We have implemented a declarative debugger for Mercury that is capable of finding bugs in large, long-running programs. This debugger implements several search strategies. We discuss the implementation of two of these strategies and the conditions under which each strategy is useful.The divide and query strategy tries to minimize the number of questions asked of the user. While divide and query can reduce the number of questions to roughly logarithmic in the size of the computation, implementing ...

Keywords: algorithmic debugging, declarative debugging, divide-and-query, program slicing

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61 Edit detection and parsing for transcribed speech ■

Eugene Charniak, Mark Johnson

June 2001 **Second meeting of the North American Chapter of the Association for Computational Linguistics on Language technologies 2001 NAACL '01**

Publisher: Association for Computational Linguistics

Full text available: pdf(215.75 KB) Additional Information: full citation, abstract, references, citings

We present a simple architecture for parsing transcribed speech in which an edited-word detector first removes such words from the sentence string, and then a standard statistical parser trained on transcribed speech parses the remaining words. The edit detector achieves a misclassification rate on edited words of 2.2%. (The NULL-model, which marks everything as not edited, has an error rate of 5.9%.) To evaluate our parsing results we introduce a new evaluation metric, the purpose of which is t ...

62 Beyond standard CFG parsing: Dynamic programming for parsing and estimation of stochastic unification-based grammars ■

Stuart Geman, Mark Johnson

July 2001 **Proceedings of the 40th Annual Meeting on Association for Computational Linguistics ACL '02**

Publisher: Association for Computational Linguistics

Full text available: pdf(186.67 KB) Additional Information: full citation, abstract, references, citings

Stochastic unification-based grammars (SUBGs) define exponential distributions over the parses generated by a unification-based grammar (UBG). Existing algorithms for parsing and estimation require the enumeration of all of the parses of a string in order to determine the most likely one, or in order to calculate the statistics needed to estimate a grammar from a training corpus. This paper describes a graph-based dynamic programming algorithm for calculating these statistics from the packed UBG ...

63 Statistical and probabilistic techniques: Confidence-based data management for personal area sensor networks ■

Nesime Tatbul, Mark Buller, Reed Hoyt, Steve Mullen, Stan Zdonik

August 2004 **Proceeedings of the 1st international workshop on Data management for sensor networks: in conjunction with VLDB 2004 DMSN '04**

Publisher: ACM Press

Full text available: pdf(384.99 KB) Additional Information: full citation, abstract, references, citings

The military is working on embedding sensors in a "smart uniform" that will monitor key biological parameters to determine the physiological status of a soldier. The soldier's status can only be determined accurately by combining the readings from several sensors using sophisticated physiological models. Unfortunately, the physical environment and the low-bandwidth, push-based personal-area network (PAN) introduce uncertainty in the inputs to the models. Thus the model must produce a confidence ...

64 A flexible framework for implementing software transactional memory
Maurice Herlihy, Victor Luchangco, Mark Moir
October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**, Volume 41 Issue 10
Publisher: ACM Press
Full text available: pdf(167.69 KB) Additional Information: full citation, abstract, references, index terms

We describe DSTM2, a Java™ software library that provides a flexible framework for implementing object-based software transactional memory (STM). The library uses *transactional factories* to transform sequential (unsynchronized) classes into atomic (transactionally synchronized) ones, providing a substantial improvement over the awkward programming interface of our previous DSTM library. Furthermore, researchers can experiment with alternative STM mechanisms by providing their own fa ...

Keywords: Java library, atomicity, concurrency, obstruction-free factory, shadow factory, software transactional memory (STM), transactions

65 1990: Analysis of pointers and structures
David Chase, Mark Wegman, F. Ken Zadeck
April 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 4
Publisher: ACM Press
Full text available: pdf(2.52 MB) Additional Information: full citation, references

66 Analysis of pointers and structures
David R. Chase, Mark Wegman, F. Kenneth Zadeck
June 1990 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1990 conference on Programming language design and implementation PLDI '90**, Volume 25 Issue 6
Publisher: ACM Press
Full text available: pdf(1.94 MB) Additional Information: full citation, references, citings, index terms

67 Software transactional memory for dynamic-sized data structures
Maurice Herlihy, Victor Luchangco, Mark Moir, William N. Scherer
July 2003 **Proceedings of the twenty-second annual symposium on Principles of distributed computing PODC '03**
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new form of software transactional memory (STM) designed to support dynamic-sized data structures, and we describe a novel non-blocking implementation. The non-blocking property we consider is *obstruction-freedom*. Obstruction-freedom is weaker than lock-freedom; as a result, it admits substantially simpler and more efficient implementations. A novel feature of our obstruction-free STM implementation is its use of modular contention managers to ensure progress in practice. We ...

68 Squibs and discussions: the DOP Estimation method is biased and inconsistent
Mark Johnson
March 2002 **Computational Linguistics**, Volume 28 Issue 1
Publisher: MIT Press
Full text available: pdf(242.75 KB) Additional Information: full citation, abstract, references, citings, index terms

A data-oriented parsing or DOP model for statistical parsing associates fragments of linguistic representations with numerical weights, where these weights are estimated by normalizing the empirical frequency of each fragment in a training corpus (see Bod [1998] and references cited therein). This note observes that this estimation method is biased and inconsistent; that is, the estimated distribution does not in general converge on the true distribution as the size of the training corpus increa ...

69 Session 4 (brief announcements): Dynamic-sized lock-free data structures
Maurice Herlihy, Victor Luchangco, Paul Martin, Mark Moir
July 2002 **Proceedings of the twenty-first annual symposium on Principles of distributed computing PODC '02**
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70 Future (hyper)spaces
Kathryn Cramer, Sam Epstein, Cathy Marshall, Tom Meyer, Mark Pesce
March 1996 **Proceedings of the the seventh ACM conference on Hypertext HYPERTEXT '96**
Publisher: ACM Press
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71 Lexicalized stochastic modeling of constraint-based grammars using log-linear measures and EM training
Stefan Riezler, Jonas Kuhn, Detlef Prescher, Mark Johnson
October 2000 **Proceedings of the 38th Annual Meeting on Association for Computational Linguistics ACL '00**
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We present a new approach to stochastic modeling of constraint-based grammars that is based on loglinear models and uses EM for estimation from unannotated data. The techniques are applied to an LFG grammar for German. Evaluation on an exact match task yields 86% precision for an ambiguity rate of 5.4, and 90% precision on a subcat frame match for an ambiguity rate of 25. Experimental comparison to training from a parsebank shows a 10% gain from EM training. Also, a new class-based grammar lexic ...

72 Beyond standard CFG parsing: Parsing the wall street journal using a Lexical-Functional Grammar and discriminative estimation techniques
Stefan Riezler, Tracy H. King, Ronald M. Kaplan, Richard Crouch, John T. Maxwell, Mark Johnson
July 2001 **Proceedings of the 40th Annual Meeting on Association for Computational Linguistics ACL '02**
Publisher: Association for Computational Linguistics
Full text available: pdf(145.89 KB) Additional Information: full citation, abstract, references, citings

We present a stochastic parsing system consisting of a Lexical-Functional Grammar (LFG), a constraint-based parser and a stochastic disambiguation model. We report on the results of applying this system to parsing the UPenn Wall Street Journal (WSJ) treebank. The model combines full and partial parsing techniques to reach full grammar coverage on unseen data. The treebank annotations are used to provide partially labeled data for discriminative statistical estimation using exponential models. Di ...

73 Specialized parsing and grammar induction: A simple pattern-matching algorithm for recovering empty nodes and their antecedents
Mark Johnson
July 2001 **Proceedings of the 40th Annual Meeting on Association for Computational**

Linguistics ACL '02
Publisher: Association for Computational Linguistics
Full text available: pdf(151.68 KB) Additional Information: full citation, abstract, references, citings

This paper describes a simple pattern-matching algorithm for recovering empty nodes and identifying their co-indexed antecedents in phrase structure trees that do not contain this information. The patterns are minimal connected tree fragments containing an empty node and all other nodes co-indexed with it. This paper also proposes an evaluation procedure for empty node recovery procedures which is independent of most of the details of phrase structure, which makes it possible to compare the perf ...

74 Joint and conditional estimation of tagging and parsing models
Mark Johnson
July 2001 **Proceedings of the 39th Annual Meeting on Association for Computational Linguistics ACL '01**
Publisher: Association for Computational Linguistics
Full text available: pdf(138.78 KB) Additional Information: full citation, abstract, references, citings

This paper compares two different ways of estimating statistical language models. Many statistical NLP tagging and parsing models are estimated by maximizing the (joint) likelihood of the fully-observed training data. However, since these applications only require the conditional probability distributions, these distributions can in principle be learnt by maximizing the conditional likelihood of the training data. Perhaps somewhat surprisingly, models estimated by maximizing the joint were super ...

75 Nonblocking memory management support for dynamic-sized data structures
Maurice Herlihy, Victor Luchangco, Paul Martin, Mark Moir
May 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 2
Publisher: ACM Press
Full text available: pdf(944.89 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Conventional dynamic memory management methods interact poorly with lock-free synchronization. In this article, we introduce novel techniques that allow lock-free data structures to allocate and free memory dynamically using any thread-safe memory management library. Our mechanisms are lock-free in the sense that they do not allow a thread to be prevented from allocating or freeing memory by the failure or delay of other threads. We demonstrate the utility of these techniques by showing how to m ...

Keywords: Multiprocessors, concurrent data structures, dynamic data structures, memory management, nonblocking synchronization

76 Shared memory objects: Bringing practical lock-free synchronization to 64-bit applications
Simon Doherty, Maurice Herlihy, Victor Luchangco, Mark Moir
July 2004 **Proceedings of the twenty-third annual ACM symposium on Principles of distributed computing PODC '04**
Publisher: ACM Press
Full text available: pdf(204.03 KB) Additional Information: full citation, abstract, references, citings, index terms

Many lock-free data structures in the literature exploit techniques that are possible only because state-of-the-art 64-bit processors are still running 32-bit operating systems and applications. As software catches up to hardware, "64-bit-clean" lock-free data structures, which cannot use such techniques, are needed.We present several 64-bit-clean lock-free implementations: *load-linked/store-conditional* variables of arbitrary size, a FIFO queue, and a freelist. In addition to being portab ...

Keywords: 64-bit architectures, 64-bit-clean software, compare-and-swap (CAS), freelists, load-linked/store-conditional (LL/SC), lock-free, memory management, multiprocessors, nonblocking synchronization, population-oblivious, queues, space-adaptive

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